

mon, with crest stages from 2 to nearly 4 feet above bankful at Abilene and Enterprise, Kans.

Light overflow occurred along the Republican River and in the Kansas River from Ogden to Lawrence, Kans.

Rather serious overflow occurred along the Osage River, cresting on July 1 at Quenemo and on July 6 at Trading Post. At Ottawa, a crest of 29.6 feet, 5.6 feet above bankful, occurred on July 2, and much of the lower part of the city was flooded. A second and slight overflow crested at Ottawa on July 10, resulting in an overflow below Ottawa almost as great as the earlier one, the crest period extending from July 10 to July 12. At Quenemo a second and slight overflow occurred on July 14.

The Missouri River at and below Waverly, Mo., exceeded flood stage slightly during the first few days of the month.

*White, Red, and Arkansas Basins.*—The Black and White Rivers in Arkansas fell below flood stage during the month from crests that occurred in June. The White River at Clarendon, Ark., fell below flood stage on July 18 for the first time since February 27; a total of 142 days above flood stage.

Rains averaging from 3 to 5 inches fell in the upper and middle portions of the Neosho River Basin on June 30, while showers ranging from 1½ to 2 inches fell along the lower Neosho and its tributaries on July 1. The latter rains caused the tributaries of the Neosho to raise the main stream to above flood stage in the vicinity of Oswego before the crest from the middle portion of the basin arrived. This distribution of rain also caused a lower but longer period of flood in the lower part of the Neosho.

Minor flooding was reported in the Sulphur and Red Rivers in Texas and Louisiana.

*Lower Mississippi and Atchafalaya Basins.*—The St. Francis River crested at Fisk, Mo. at 22 feet from July 1-4, and at St. Francis, Ark., the crest was 19.5 on July 6 and 7. At Parkin, Ark., and below, the river fell throughout July. The lower Mississippi and Atchafalaya Rivers were a little above flood stage during the early part of the month.

*West Gulf of Mexico Drainage.*—Light to moderate overflow occurred along the Sabine and Trinity Rivers in eastern Texas.

#### FLOOD-STAGE REPORT FOR JULY 1945

[All dates in July unless otherwise specified]

River and station	Flood stage	Above flood stages— dates		Crest 1	
		From—	To—	Stage	Date
ATLANTIC SLOPE DRAINAGE					
Lehigh: Leighton, Pa.-----	<i>Feet</i> 7	19	21	<i>Feet</i> 9.0	19
Roanoke:					
Weldon, N. C.-----	31	18	19	33.3	18
Williamston, N. C.-----	10	22	24	10.3	23
Fishing Creek: Enfield, N. C.-----	14	31	Aug. 5	10.4	Aug. 3
Tar:		19	22	15.1	
Rocky Mount, N. C.-----	9	18	23	10.4	22
Tarboro, N. C.-----	18	21	26	21.4	24
Greenville, N. C.-----	13	22	28	14.9	26
Neuse:					
Neuse, N. C.-----	14	17	23	18.9	21
Smithfield, N. C.-----	13	18	25	17.5	22-23
Goldsboro, N. C.-----	14	25	29	14.7	27
Cape Fear: Lock No. 2, Elizabeth-					
town, N. C.-----	20	18	19	20.5	19
Saluda: Pelzer, S. C.-----	6	15	16	6.2	15
MISSISSIPPI SYSTEM					
Upper Mississippi Basin					
Root: Houston, Minn.-----	15	21	21	15.0	21
Whitewater: Beaver, Minn.-----	7	21	21	7.7	21
Illinois: Beardstown, Ill.-----	14	May 15	4	19.4 15.6 17.6	May 24 June 14 June 22

See footnotes at end of table.

#### FLOOD-STAGE REPORT FOR JULY 1945—Continued

[All dates in July unless otherwise specified]

River and station	Flood stage	Above flood stages— dates		Crest <sup>1</sup>	
		From—	To—	Stage	Date
MISSISSIPPI SYSTEM—continued					
Upper Mississippi Basin—Continued					
Mississippi:	<i>Feet</i>			<i>Feet</i>	
Hannibal, Mo. ....	13	1	6	13.8	3
Louisiana, Mo. ....	12	June 26	10	12.4	June 27
		14	19	12.9	2
		27	27	12.1	14
				12.0	27
Missouri Basin					
Solomon:					
Beloit, Kans. ....	18	5	6	19.8	5
Niles, Kans. ....	24	17	20	27.8	19
Saline: Tescott, Kans. ....	25	19	23	28.2	21
Smoky Hill:		June 29	2	28.3	1
Abilene, Kans. ....	22	18	19	24.1	18
Enterprise, Kans. ....	26	17	19	29.8	18
Little Blue: Endicott, Nebr. ....	11	19	19	11.5	19
Republican:					
Guide Rock, Nebr. ....	10	17	17	10.3	17
Scandia, Kans. ....	10	17	17	10.8	17
Concordia, Kans. ....	8	17	17	8.1	17
Clay Center, Kans. ....	15	1	1	16.1	1
		18	18	16.6	18
		26	27	17.9	26
Wakefield, Kans. ....	11	26	27	11.2	26
Kansas:					
Ogden, Kans. ....	18	18	18	18.6	18
Manhattan, Kans. ....	17	18	19	19.5	19
		27	27	18.8	27
Topeka, Kans. ....	21	1	1	22.4	1
LeCompton, Kans. ....	17	1	1	18.3	1
Lawrence, Kans. ....	18	1	1	19.0	1
Grand: Brunswick, Mo. ....	12	1	4	15.0	3
Osage:					
Quenemo, Kans. ....	30	1	2	35.1	1
		14	14	31.0	14
Ottawa, Kans. ....	24	1	3	29.6	2
		10	10	25.6	10
Osawatimie, Kans. ....	28	1	4	32.6	2
		9	11	31.9	11
LaCygne, Kans. ....	26	1	6	28.6	3
		9	13	28.3	11
Trading Post, Kans. ....	24	3	6	25.2	6
		9	14	25.5	10-12
Lakeside (Bagnell Dam) Mo. ....	60	8	14	60.2	10
		16	20	60.1	17
Missouri:					
Waverly, Mo. ....	18	1	3	19.3	2
Boonville, Mo. ....	21	2	3	21.3	3
Hermann, Mo. ....	21	3	5	22.1	4
St. Charles, Mo. ....	25	3	6	26.2	5
Ohio Basin					
White: Hazleton, Ind. ....	16	June 17	1	25.1	June 25
Wabash: New Harmony, Ind. ....	15	June 20	1	18.5	June 26-27
White Basin					
Black: Black Rock, Ark. ....	14	June 9	8	27.0	June 16, 18
White:					
Augusta, Ark. ....	32	June 12	3	35.9	June 16-17
Georgetown, Ark. ....	21	June 11	10	25.2	June 16-20
Des Arc, Ark. ....	24	June 14	4	27.7	June 21
				33.4	Mar. 14-16
				38.2	Apr. 9-1
Clarendon, Ark. ....	26	Feb. 27	18	39.1	Apr. 0
				29.4	May 24
				35.5	June 25-26
				38.6	June 23-24
				39.2	Apr. 11-12
St. Charles, Ark. ....	25	Mar. 2	18	27.2	Apr. 26-27
				33.6	May 26-29
				33.6	June 26-27
Arkansas Basin					
Neosho:					
LeRoy, Kans. ....	23	June 30	1	25.5	1
Iola, Kans. ....	15	June 30	2	19.0	1
Chanute, Kans. ....	20	1	3	25.1	2
Parsons, Kans. ....	24	4	5	24.3	5
Oswego, Kans. ....	17	2	5	20.3	3
Red Basin					
Black: Jonesville, La. ....	50	Mar. 18	9	58.5	Apr. 28, 30
Sulphur:					
Hagansport, Tex. ....	38	12	13	38.2	12
Naples, Tex. ....	22	15	21	25.0	17

## FLOOD-STAGE REPORT FOR JULY 1945—Continued

[All dates in July unless otherwise specified]

River and station	Flood stage	Above flood stages— dates		Crest <sup>1</sup>	
		From—	To—	Stage	Date
MISSISSIPPI SYSTEM—continued					
Red Basin—Continued					
Red: Alexandria, La.....	<i>Feet</i> 32	June 23	1	<i>Feet</i> 33.7 15.8	June 27 Mar. 10-11
Lower Mississippi Basin					
Big Lake Outlet: Manila, Ark.....	10	Feb. 23	-----	17.5 16.7 15.2 18.3	Apr. 5-6 Apr. 20-21 May 14-15 June 20-21
St. Francis: Fisk, Mo.....	20	June 22	( <sup>2</sup> )	22.0 20.2 20.3 21.9 23.4 21.5	1-4 Mar. 23 Mar. 26 Apr. 8 Apr. 20 May 3-5
St. Francis, Ark.....	18	Mar. 19	( <sup>2</sup> )	22.8 21.9 20.1 19.5 19.1	May 10 June 12 June 18 6-7 27-30
Parkin, Ark.....	28	June 23	4	29.3	June 27-29
Madison, Ark.....	32	June 29	June 30	32.0	June 29-30
Mississippi:					
Red River Landing, La.....	45	June 30	9	45.8	5
Baton Rouge, La.....	35	June 28	12	36.2	5-7
Donaldsonville, La.....	28	1	10	28.4	4-9

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[All dates in July unless otherwise specified]

River and station	Flood stage	Above flood stages— dates		Crest <sup>1</sup>	
		From—	To—	Stage	Date
MISSISSIPPI SYSTEM—continued					
Atchafalaya Basin					
Atchafalaya:	<i>Feet</i>			<i>Feet</i>	
Melville, La.....	37	3	8	37.2 28.4	6-7 May 3-8
Atchafalaya, La.....	25	Mar. 8	18	27.7 26.7 6.0 6.0	May 19 6-10 8-10 21-22
Morgan City, La.....	6	{ 8 21	10 22		
WEST GULF OF MEXICO DRAINAGE					
Sabine:					
Gladewater, Tex.....	26	14	24	30.0	21
Logansport, La.....	25	June 26	7	30.4	June 29
Bon Wier, Tex.....	17	14	15	17.4	15
Elm Fork: Carrollton, Tex.....	6	11	13	7.2	12
East Fork: Rockwall (nr.), Tex.....	10	9	15	15.0	13
Trinity:					
Dallas, Tex.....	28	11	16	31.6	14
Rosser (nr.), Tex.....	26	11	20	30.2	15
Trinidad, Tex.....	28	13	23	35.1	18

<sup>1</sup> Provisional.<sup>2</sup> Continued into August.